Cell Structure and Function



BIG PICTURE IDEAS 👝



- #1. Cells are the basic units of life and can be classified into two main types: prokaryotic cells, which lack a nucleus and membrane-bound organistes, and emarystic cells, which have a nucleus and various organistes.
- #2. Organistics are specialized structures within cells that perform specific functions. Examples include the nucleus (containing DNA). mitachondria (producing energy through cellular respiration), endoplasmic reticulum (involved in protein synthesis and lipid metabolism). and Golgi apparatus (modifying, sorting, and packaging proteins).
- #5. Osmosis is a type of passive transport in which water molecules move across a selectively permeable membrane from an area of lower solute concentration (hypotonic) to an area of higher solute concentration (hypertonic). It plays a vital role in maintaining proper water balance within cells and is crucial for various biological processes, including nutrient uptake and waste removal.
- #4. Cellular transport is the process by which substances move into, out of, and within cells. It includes various mechanisms such as passive transport, facilitated diffusion, active transport, endocytosis, and exceptosis, ensuring the proper exchange of molecules and maintaining cellular homeostasis.
- #5. The plasma membrane is a selectively permeable barrier that surrounds cells, regulating the entry and exit of substances, it consists of a phospholipid bilayer embedded with proteins and other molecules.

KEY VOCABI

Ribosome Lysosome Turgor Pressure Chier ephyll. Hydrephobic. Passive/Active Transport Hypa/Hyper/Isotonic Endosymbiosis:

Thurlakoold Surface Area Hydrophilic. Concentration. Osmosis Prokaryote:

Endoclasmic Reticulum

Wactaolie-

Solgi Complex Chiloroplast. Stroma Violannie. Selective Permeability Solute Water Potential Epikarvote

Mitochondria. Apoptosis: Grama: Phasohalioids Polarity: Endle/Execytosis Osmior equilation:

KIEY.

Volume of sohere: $V = 4/3 \text{ m}^{-1}$ FORMULAS: Surface Area of sphere: SA = 4m² $\Psi' = \Psi' + \Psi'$

W. = - HERT

Togic 2.1 Cell Structure: Subcellular Components @

- Topic 2.2 Cell Structure and Function
- Topic 2.10 Compartmentalization
- The endomembrane system includes the nuclear envelope, lysosomes, vesicles, endoplasmic reticulum. Solgi apparatus and plasma membrane.
- Apoptosis is scheduled cell death.
- Secretory wesides bud off the trans face of the Golgi Complex.
- Identify five pieces of evidence for the endosymbiosis theory of mitochondria and chloroplasts. Double membrane, have their own DNA, have ribosomes, replicate independently, approximately the size of existing prokaryotic cells



Cellular Structure And Function Study Guide Answer

J Dewey

Cellular Structure And Function Study Guide Answer:

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